

**SINGLE-CHIP AUDIO CIRCUITS, METHODS AND
SYSTEMS USING THE SAME**

ABSTRACT OF THE DISCLOSURE

5 A single chip audio system 100 includes a bus
interface 101, digital to analog converters 110, an
analog mixer 115, and analog spatial enhancement
circuitry 7500. Digital to analog converters 110 convert
digital audio data received through bus interface 101
into analog signals. Analog mixer 115 mixes signals
10 received from digital to analog converters 110 with an
analog signal received from an external source. Analog
spatial enhancement circuitry 7500 enhances first and
second mixed analog signals output from analog mixer 115.

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